

1-800-GRAINGER (472-4643)

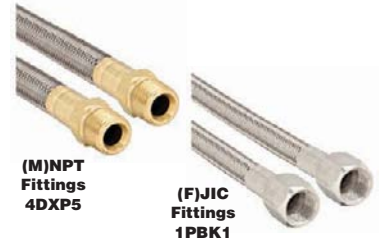
Chemical Hose Assemblies

■ Temp. range.: -65° to 450°F

These PTFE (polytetrafluoroethylene) chemical hose assemblies are used in the cosmetics, pharmaceutical, chemical, and food industries. They comply with FDA requirements for use with food products. The hoses' PTFE tube provides excellent temperature and chemical resistance and maintains its integrity after exposure to thermocycling processes. The PTFE tube also has a low coefficient of friction to maintain high flow rates and provide easy cleaning. The hoses' EPDM (ethylene propylene diene monomer) cover provides excellent resistance to ozone and abrasion and offers good resistance to heat and chemicals.

PTFE Chemical Hose Assemblies with (M)NPT Fittings—These hoses have male NPT (National Pipe Taper) fittings on their ends. The fittings have tapered threads that create a tight seal when connected to compatible equipment.

PTFE Chemical Hose Assemblies with (F) JIC Fittings—These hoses have female JIC (Joint Industrial Committee) fittings on their ends. JIC fittings have straight threads and a 37° flare seat that create a tight seal when connected to compatible equipment.



Hose I.D.	Hose Fittings*	Max. Working Pressure @ 70°F	Std.	12 in Item No.	18 in Item No.	Hose Length		4 ft Item No.	5 ft Item No.
						24 in Item No.	36 in Item No.		
PTFE Chemical Hose Assemblies with (M)NPT Fittings									
3/16 in	301 SS 1/8 in x 301 SS 1/8 in	3,000 psi	PTFE Tube-FDA, SAE 100R14 FDA 41, SAE100R14	4DXU2	4DXU3	—	—	—	—
1/8 in	301 SS 1/8 in x 301 SS 1/8 in	3,000 psi	—	—	—	4DXU4	4DXU5	4DXU6	4DXU7
3/16 in	Brass 1/8 in x Brass 1/8 in	3,000 psi	PTFE Tube-FDA, SAE 100R14	4DXP5	4DXP6	4DXP7	4DXP8	4DXP9	4DXR1
1/8 in	301 SS 1/4 in x 301 SS 1/4 in	2,500 psi	PTFE Tube-FDA, SAE 100R14	4DXU8	4DXU9	4DXV1	4DXV2	4DXV3	4DXV4
3/16 in	301 SS 1/4 in x 301 SS 1/4 in	3,000 psi	FDA 41, SAE100R14	4DXR8	—	—	—	—	—
1/8 in	Brass 1/4 in x Brass 1/4 in	2,500 psi	PTFE Tube-FDA, SAE 100R14	4DXR2	4DXR3	4DXR4	4DXR5	4DXR6	4DXR7
3/16 in	301 SS 3/8 in x 301 SS 3/8 in	2,000 psi	PTFE Tube-FDA, SAE 100R14	4DXV5	4DXV6	4DXV7	—	4DXV9	4DXW1
1/8 in	Brass 3/8 in x Brass 3/8 in	2,000 psi	PTFE Tube-FDA, SAE 100R14	4DXR8	4DXR9	4DXT1	4DXT2	4DXT3	4DXT4
1/2 in	301 SS 1/2 in x 301 SS 1/2 in	3,000 psi	FDA 41, SAE100R14	—	4DXW3	—	—	—	—
1/2 in	301 SS 1/2 in x Brass 1/2 in	1,500 psi	PTFE Tube-FDA, SAE 100R14	4DXW2	—	4DXW4	4DXW5	—	—
1/2 in	Brass 1/2 in x Brass 1/2 in	1,500 psi	PTFE Tube-FDA, SAE 100R14	4DXT5	—	4DXT6	4DXT7	4DXT8	4DXU1
1/2 in	Brass 1/2 in x Brass 1/2 in	1,500 psi	PTFE Tube-FDA, SAE 100R14	—	—	—	—	4DXT9	4DXW7
PTFE Chemical Hose Assemblies with (F)JIC Fittings									
3/16 in	301 SS 1/8 in x 301 SS 1/8 in	3,000 psi	FDA 41, SAE100R14	1PBK1	1PBK2	1PCG2	1PCG4	1PCG6	1PCG8
1/8 in	Brass 1/8 in x Brass 1/8 in	3,000 psi	FDA 41, SAE100R14	1PCL6	1PCL7	1PCL8	1PCL9	1PCN1	1PCN2
3/16 in	301 SS 3/16 in x 301 SS 3/16 in	2,500 psi	FDA 41, SAE100R14	1PCH1	1PCH3	1PCH5	1PCH7	1PCH9	1PCJ2
1/8 in	Brass 3/16 in x Brass 3/16 in	2,500 psi	FDA 41, SAE100R14	1PCN3	—	—	—	—	—
3/16 in	Brass 3/16 in x Brass 3/16 in	2,500 psi	FDA 41, SAE100R14	—	1PCN4	1PCN5	1PCN6	1PCN7	1PCN8
1/8 in	301 SS 3/4 in x 301 SS 3/4 in	2,000 psi	FDA 41, SAE100R14	1PCJ4	1PCJ6	1PCJ8	1PCJ1	1PCJ3	1PCJ5
3/16 in	Brass 3/4 in x Brass 3/4 in	2,000 psi	FDA 41, SAE100R14	—	1PCP1	1PCP2	1PCP3	1PCP4	1PCP5
1/8 in	Brass 3/4 in x Brass 3/4 in	2,000 psi	FDA 41, SAE100R14	1PCN9	—	—	—	—	—
1/2 in	301 SS 1/2 in x 301 SS 1/2 in	1,500 psi	FDA 41, SAE100R14	1PCK7	1PCK9	1PCL2	1PCL3	1PCL4	1PCL5
1/2 in	Brass 3/4 in x Brass 3/4 in	1,500 psi	FDA 41, SAE100R14	1PCP6	—	—	—	—	—
1/2 in	Brass 1/2 in x Brass 1/2 in	1,500 psi	FDA 41, SAE100R14	—	1PCP7	1PCP8	1PCP9	1PCR1	1PCR2

* SS = Stainless Steel.



EATON Chemical Hose

■ 4:1 safety factor

CHEMFLEX

■ Max. pressure: 500 psi for 44ZF07, 44ZF59, 44ZF87, 44ZF82; 450 psi for 44ZF23, 44ZE84; 300 psi for 44ZG01, 44ZG21

■ Temp range: -40° to 300°F continuous
■ Blue color

PTFE constructed hose with EPDM cover is chemical-resistant and handles a broad range of temperatures. For use in the cosmetics, pharmaceutical, chemical and food industry where chemical compatibility is critical.

CHEMCAT™

■ Max. pressure: 300 psi
■ Temp range: -40° to 250°F
■ Green color

Ultra-High Molecular Weight Polyethylene (UHMW-PE) tube handles acids, chemicals, solvents, and petroleum products. Green EPDM cover helps protect the fiber reinforcement and helix wires from harsh industrial environments.

Inside Bend Dia. Radius	Fittings	10 FT. Item No.	20 FT. Item No.
Chemflex			
1/2 in 4 in 1/2"	Stainless Steel, Cam and Groove	44ZF07	44ZF87
1 in 6 in 1"	Stainless Steel, Cam and Groove	44ZF23	44ZE84
3/4 in 4 1/2 in 3/4"	Stainless Steel, Cam and Groove	44ZE82	44ZF59
1 1/2 in 9 in 1 1/2"	Stainless Steel, Cam and Groove	44ZG21	44ZG01
Chemcat™			
1 1/2 in 7 1/2 in 1 1/2"	Stainless Steel, Cam and Groove	44ZE77	44ZF19
3 in 9 in 3"	Stainless Steel, Cam and Groove	44ZF40	44ZE78
2 in 8 in 2"	Stainless Steel, Cam and Groove	44ZF98	44ZF46
2 1/2 in 8 in 2 1/2"	Stainless Steel, Cam and Groove	44ZF50	44ZG34
1 in 5 1/2 in 1"	Stainless Steel, Cam and Groove	44ZF90	44ZG28



1ZLR5



Material Handling Hose

PVC/Thermoplastic—Handles abrasive materials including cement, fertilizers, fly ash, glass, gravel, metals, plastic pellets, rock salt, sand, and slurries where material may have some moisture. Meet RMA Class B standard.

Thermoplastic—For use in the dry pneumatic conveying of highly abrasive solids.

Dry Bulk—Ideal for transferring dry abrasive materials such as bottle caps and cleaning agents. Suitable for use in coal plants, dry cement operations, in-plant transfer, and well service applications.

Hot Air—For use in construction, hot air blowing, in plant, and non-oily applications. Can be used for dry cement and tank truck delivery operations.

Inside Dia.	Length	Outside Dia.	Max. Pressure	Color	Brand	Item No.
Bulk Hose, PVC/Thermoplastic Polyurethane Tube, PVC/Nitrile/Polyurethane Cover, Nonconductive, -30 to 158°F						
1 1/2"	25 ft.	1 3/32"	40 psi	Black	Continental	1ZLRH
2"	25 ft.	2 1/2"	40 psi	Black	Continental	4XR65
3"	25 ft.	3 3/8"	30 psi	Black	Continental	4XR66
4"	25 ft.	4 5/8"	30 psi	Black	Continental	4XR67
Bulk Hose, Thermoplastic Polyurethane Tube, PVC/Nitrile Cover, 0 to 158°F						
1 1/2"	100 ft.	1 3/32"	50 psi	Blue	Continental	1ZLR5
2"	100 ft.	2 5/16"	50 psi	Blue	Continental	1ZLR6
3"	50 ft.	3 19/32"	40 psi	Blue	Continental	1ZLR7
4"	50 ft.	4 5/8"	35 psi	Blue	Continental	1ZLR8
Dry Bulk, Rubber Tube, Styrene Butadiene Rubber Cover, -40 to 158°F						
4"	20 ft.	4 39/64"	75 psi	Black	Eaton	48RJ51 *
5"	20 ft.	5 3/8"	75 psi	Black	Eaton	48RJ52 *
4"	20 ft.	4 1/32"	75 psi	Black	Eaton	48RJ53 *
5"	20 ft.	5 51/64"	75 psi	Black	Eaton	48RJ54 *
4"	20 ft.	4 39/64"	75 psi	Black	Eaton	48RJ57 *
5"	20 ft.	5 3/8"	75 psi	Black	Eaton	48RJ58 *
4"	20 ft.	4 1/32"	75 psi	Black	Eaton	48RJ60 *
Bulk Hose, Dry Bulk, Rubber Tube, Styrene Butadiene Rubber Cover, -40 to 158°F						
4"	100 ft.	4 39/64"	75 psi	Black	Eaton	48RJ45
5"	100 ft.	5 3/8"	75 psi	Black	Eaton	48RJ46
4"	100 ft.	4 1/32"	75 psi	Black	Eaton	48RJ47
5"	100 ft.	5 51/64"	75 psi	Black	Eaton	48RJ48
Hot Air Hose, Dry Bulk, Rubber Tube, EPDM Cover, -40 to 158°F						
3"	20 ft.	3 3/16"	150 psi	Brown	Eaton	48RJ55 *
4"	20 ft.	4 19/32"	100 psi	Brown	Eaton	48RJ56 *
3"	20 ft.	3 3/16"	150 psi	Brown	Eaton	48RJ61 †
4"	20 ft.	4 19/32"	100 psi	Brown	Eaton	48RJ62 †
Bulk Hose, Hot Air Hose, Dry Bulk, Rubber Tube, EPDM Cover, -40 to 158°F						
3"	100 ft.	3 3/16"	150 psi	Brown	Eaton	48RJ49
4"	100 ft.	4 19/32"	100 psi	Brown	Eaton	48RJ50

* Aluminum male x female cam & groove fitting type. † Aluminum female x female cam & groove fitting type.